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1. FLMAP: A fast lightweight mutual authentication protocol for RFID systems
Sadighian, A.; Jalili, R.;
Networks, 2008. ICON 2008. 16th IEEE International Conference on (155-
12-14 Dec. 2008. p.1

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

Numerous authentication protocols for RFID systems were proposed as attack and monitoring, impersonation or cloning, and information leakage. Many essential requirements that one robust authentication protocol must guarantee. A mutual authentication protocol, called FLMAP, that overcomes all the drawbacks

protocols. Our protocol has three passes and it does not use any cryptographic and encryption algorithms; it is very fast and efficient. Significant characteristics are security, tag anonymity, location privacy, resistance to disclosure attack, low cost and scalability. To the best of our knowledge, our protocol offers the most secure mutual authentication protocols with respect to user privacy. In analyzing the properties such as forward security and tag anonymity are guaranteed.

2. Online students supervision (OSS) systems using passive RFID
binti Abdul Kadir, H.; binti Mohd Kanafiah, S.N.A.; bin Abd. Wahab, M.F.
Electronic Design, 2008. ICED 2008. International Conference on (978-1-4244-1312-1). 1-3 Dec. 2008. p.1

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

Automatic identification technologies have been used to reduce the time and cost in many applications, i.e. Barcode, smart card, radio frequency identification (RFID), biometric recognition. Currently RFID has become one of the hottest technologies in many applications. In Malaysia, the usage of this technology has not yet been expanded. In this paper, we propose a system to monitor the interest group movement in the working place, smart tag in PLUS highway and price tags in supermarkets. In this overview on RFID, this study attempts to apply the technology in online student supervision /university management system to monitor the interest group. The OSS system is a passive RFID system, database management system and online networking system. When the RFID reader, the system will record the data from the RFID tag to the database and present online to the management for the supervision of students. This system will enable the management people to monitor the availability of each student in the interest group. In the management procedures, monitor the interest group movement automatically.

3. Tag Initiated Authentication Module for Fast and Efficient RFID Security
Hoon Ko; Yunseok Chang; Ramos, C.;

Mobile Ubiquitous Computing, Systems, Services and Technologies, 2008. ICST 2008. International Conference on (978-0-7695-3367-4)

Sept. 29 2008-Oct. 4 2008. p.362

Source: IEEE Electronic Library Online

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The RFID is one of the most important technique in ubiquitous for low power consumption and fast and safe authentication scheme for security. The existing scheme has low power consumption and it is hard to give efficient security to the authentication scheme. The simulation results show the proposed scheme has enough security than existing scheme and can help enhancing the RFID authentication module.

4. The research of RFID middleware's data management model
Wang Yanyan; Zhao Xiaofeng; Wu Yaohua; Xu Peipei;

Automation and Logistics, 2008. ICAL 2008. IEEE International Conference on (978-1-4244-1312-1). 1-3 Sept. 2008. p.2565

Source: IEEE Electronic Library Online

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With the development of RFID applications, the rapidly increasing number of RFID devices, the RFID system development and the RFID devices which adopt the different

Source: INSPEC

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11.Thermochromism of bacteriorhodopsin and its pH dependence.
2008.



Source: INSPEC

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12.Verifying the authenticity of chip designs with the DesignTag system.
2008.



Source: INSPEC

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13.security tag.

Computer Desktop Encyclopedia

10/1/2007. p.1



Source: Computers & Applied Sciences Complete

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See EAS and authentication token. [ABSTRACT FROM AUTHOR]

14.Architectural Support for Run-Time Validation of Program Data Properties
Arora, D.; Ravi, S.; Raghunathan, A.; Jha, N.K.;

Very Large Scale Integration (VLSI) Systems, IEEE Transactions on (106
May 2007. Vol.15,Iss.5;p.546

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

As computer systems penetrate deeper into our lives and handle private data transactions of high monetary value, efforts to breach their security also go beyond an amateur hacker's play. Until now, security was always an afterthought: updates to antivirus software, patches issued by vendors after software bugs. Increasingly, we are realizing the need to incorporate security during the design of hardware. We invoke this philosophy in the design of a hardware-based system for program's data during execution. In this paper, we develop a general framework against a wide class of security attacks. Our work is based on the observation that permissible behavior with respect to data accesses can be characterized by hardware/software approach wherein such properties can be encoded as data policies during program execution. These policies may be application-specific (e.g., data structures), compiler-generated (e.g., enforcing that variables are accessed universally applicable to all programs (e.g., disallowing WRITES to unaltered embedded system architecture can support such policies by: 1) enhancing attributes of each datum as security tags that are linked to it throughout its hardware checker that interprets the semantics of the tags and enforces them. We evaluated the effectiveness of the proposed architecture in enforcing various embedded benchmark applications. Our experiments in the context of the 3 show that the proposed solution ensures- run-time validation of application-defined STIC Full Text Retrieval Options



15.Architectural support for run-time validation of program data properties.
2007.



Source: INSPEC

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16.A design of authentication protocol for multi-key RFID tag.
2007.

Source: INSPEC

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17.Divisible e-cash systems can be truly anonymous.
2007.

Source: INSPEC

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18.Source tagging-a viable solution to shoplifting?
2007.

Source: INSPEC

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19.Tweaking TBE/IBE to PKE transforms with chameleon hash functions
2007.

Source: INSPEC

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20.Metrologic Adds Sweepstakes, New Scanner.

Schell, Dan; Schell, Dan.

Business Solutions (1521-7027)

12/1/2006. Vol.21,Iss.11;p.16-16

Source: Computers & Applied Sciences Complete

Show Abstract | Show In Clusters | 1 Duplicate Records

The article reports that Metrologic launched the scanner called the MS718 promotion. The MS7180 Orbit CG is an omnidirectional bar code scanner and a single-line laser and has a power save mode. It also has an integrated tag deactivation. Metrologic also begun its Life of Luxury Sweepstakes which have to register by December 29, 2006 and for every purchase of any Metrologic to 1 sweepstakes entry.

STIC Full Text Retrieval Options

21.Lionsgate doubles security tags.

Netherby, Jennifer.

Video Business (0279-571X)

11/20/2006. Vol.26,Iss.47;p.1-33

Source: Computer Source: Consumer Edition

Show Abstract | Show In Clusters

The article reports that Lions Gate Entertainment Corp. will be the first studio to use both Sensormatic and Checkpoint electronic article surveillance tags on Fox DVD. The theft deterrent tag on DVD, and retailers place orders based on the security tags. Under the new system, all DVD will include both tags so that retailers can use the tag that works with their theft-deterrent system.

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22.Chosen-ciphertext security from tag-based encryption.
2006.

Source: INSPEC



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Source: IEEE Electronic Library Online

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5.security tag.

7/1/2008. p.1

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6. Verifying the authenticity of chip designs with the DesignTag system

Kean, T.; McLaren, D.; Marsh, C.,

Hardware-Oriented Security and Trust, 2008. HOST 2008. IEEE International

9-9 June 2008. p.59

Source: IEEE Electronic Library Online

[Show Abstract](#) | [Show In Clusters](#)

This paper introduces DesignTag - a novel, patented, dasiasecurity tagpsila verify the authenticity of semiconductor devices. The tag takes the form of a chip to the chip design and communicates through the package with an external dasiaghostpsila chips are present in the supply chain and cause economic c companies. They can also constitute a safety hazard in critical applications malicious dasiaTrojanpsila functionality into a secure system such as bank DesignTag can also be used to address related threats such as copying of c cores and unlicensed use of CAD tools.

7.FLMAP: a fast lightweight mutual authentication protocol for RFID systems. *IEEE Transactions on Information Systems*, 2008.

Source: INSPEC

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8.Nanoparticles in forensic science.

2008.

Source: INSPEC

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9. Online students supervision (OSS) systems using passive RFID.

2008.

Source: INSPEC

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10.The research of RFID middlewaresilas data management model.
2008.

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11.Thermochromism of bacteriorhodopsin and its pH dependence.
2008.

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12.Verifying the authenticity of chip designs with the DesignTag system.
2008.

Source: INSPEC

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13.security tag.
Computer Desktop Encyclopedia

10/1/2007. p.1

Source: Computers & Applied Sciences Complete

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See EAS and authentication token. [ABSTRACT FROM AUTHOR]

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Arora, D.; Ravi, S.; Raghunathan, A.; Jha, N.K.;

Very Large Scale Integration (VLSI) Systems, IEEE Transactions on (1001-3708)
May 2007. Vol.15,Iss.5;p.546

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

As computer systems penetrate deeper into our lives and handle private data transactions of high monetary value, efforts to breach their security also as beyond an amateur hacker's play. Until now, security was always an afterthought: updates to antivirus software, patches issued by vendors after software bugs. Increasingly, we are realizing the need to incorporate security during the design of hardware. We invoke this philosophy in the design of a hardware-based system for program's data during execution. In this paper, we develop a general framework against a wide class of security attacks. Our work is based on the observation that permissible behavior with respect to data accesses can be characterized by hardware/software approach wherein such properties can be encoded as data policies during program execution. These policies may be application-specific (e.g., data structures), compiler-generated (e.g., enforcing that variables are accessed universally applicable to all programs (e.g., disallowing WRITES to unallocated embedded system architecture can support such policies by: 1) enhancing attributes of each datum as security tags that are linked to it throughout its lifetime; 2) hardware checker that interprets the semantics of the tags and enforces the policies; 3) evaluated the effectiveness of the proposed architecture in enforcing various embedded benchmark applications. Our experiments in the context of the SPECint92 show that the proposed solution ensures- run-time validation of application-defined security policies. STIC Full Text Retrieval Options

15. Architectural support for run-time validation of program data properties.
2007.
Source: INSPEC
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16. A design of authentication protocol for multi-key RFID tag.
2007.
Source: INSPEC
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17. Divisible e-cash systems can be truly anonymous.
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18. Source tagging-a viable solution to shoplifting?
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Source: INSPEC
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19. Tweaking TBE/IBE to PKE transforms with chameleon hash functions
2007.
Source: INSPEC
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20. Metrologic Adds Sweepstakes, New Scanner.
Schell, Dan; Schell, Dan.
Business Solutions (1521-7027)
12/1/2006. Vol.21, Iss.11; p.16-16
Source: Computers & Applied Sciences Complete
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- The article reports that Metrologic launched the scanner called the MS7180 Orbit CG is an omnidirectional bar code scanner and a single-line laser and has a power save mode. It also has an integrated tag deactivation. Metrologic also begun its Life of Luxury Sweepstakes which have to register by December 29, 2006 and for every purchase of any Metrologic product to 1 sweepstakes entry.
STIC Full Text Retrieval Options
21. Lionsgate doubles security tags.
Netherby, Jennifer.
Video Business (0279-571X)
11/20/2006. Vol.26, Iss.47; p.1-33
Source: Computer Source: Consumer Edition
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- The article reports that Lions Gate Entertainment Corp. will be the first studio to place both Sensormatic and Checkpoint electronic article surveillance tags on DVD, and retailers place orders based on the security tags. Under the new system, all DVD will include both tags so that retailers can use a tag that works with their theft-deterrent system.
STIC Full Text Retrieval Options

22.Chosen-ciphertext security from tag-based encryption.
2006.

Source: INSPEC

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23.Enhancing security through hardware-assisted run-time validation of p
Raghunathan, A.; Jha, N.K.; Ravi, S.; Arora, D.:

Hardware/Software Codesign and System Synthesis, 2005. CODES+ISSS
International Conference on (1-59593-161-9)

Sept. 2005. p.190

Source: IEEE Electronic Library Online

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The growing number of information security breaches in electronic and co
paradigms that consider security as a primary design objective. This is par
domain, where the security solution should be customized to the needs of t
other design objectives such as cost, performance, and power. Due to the i
design cycles of embedded software, most embedded systems present a ho
be exploited by security attacks. Many attacks are initiated by causing a vi
integrity, privacy, access control rules, etc.) associated with a "trusted" pro
leading to a range of undesirable effects.In this work, we develop a genera
assurance against a wide class of security attacks. Our work is based on the
permissible behavior with respect to data accesses can be characterized by
hardware/software approach wherein such properties can be encoded as da
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hardware checker that interprets the semantics of the tags and enforces the
evaluated the effectiveness of the proposed architecture in enforcing variou
embedded benchm- arks. Our experiments in the context of the Si

24.Norprint in Queen's win.

Printing World (0032-8715)

4/28/2005. Vol.290,Iss.4;p.11-11

Source: Computer Source: Consumer Edition

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This article reports that Norprint Labelling Systems has won a Queen's Av
tagging system. The Nortag, which protects retail goods from theft, was re
for its ability to offer retailers covert security, brand enhancement and also
Norprint's technical director Gerrard Hancock has been leading the team si
The lightweight security tag has recently been introduced to leading retail
traditional cumbersome and expensive hard tags.

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25.The Dr. Who Conundrum (vulnerability of security technology).
2005.

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26. Enhancing security through hardware assisted run-time validation of pr
 2005.

Source: INSPEC

Show In Clusters

27. A lightweight mutual authentication protocol for RFID networks.
2005.
Source: INSPEC
Show In Clusters
28. Securing Layer 2 in local area networks.
2005.
Source: INSPEC
Show In Clusters
29. Graph Expo: Top Ten List.
Esler, Bill; Esler, Bill.
Graphic Arts Monthly (1047-9325)
11/1/2004. Vol.76, Iss.11; p.36-38
Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters | 2 Duplicate Records
This article reports the highlights of the Graph Expo & Converting Expo held in London. The CEO Jim Dunn emphasized the importance of best practices. These are factors that have been implemented when Job Description Format--integrated machines start working in a new fashion. Adopting best practices increases net productivity by as much as 30%. The presses are geared for one-pass, two-sided coating over five colors, and hybrid digital effects are in demand. Print moves in the course of these innovations, from traditional marking up paper--to eye-popping, tactile, value-added product. Enhancement of finished stocks, security tag grants, holograms and random pantographs, glossy sheets, hybrid digital and conventional print, and mixing digital print and traditional print companies led the trade show. Flint Ink launched Progressive Color Media, a new training, and Arrowstar inks, a worldwide brand of sheetfed inks promising improved packaging applications.
STIC Full Text Retrieval Options
30. Terahertz tagging.
Fisher, Richard; Fisher, Richard.
Engineer (00137758) (0013-7758)
10/22/2004. Vol.293, Iss.7662; p.11-11
Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters
Reports that researchers in Great Britain developed an anti-counterfeiting system using a scanner to unlock hidden information. Protection of high-value goods such as pharmaceuticals; counterfeiting; Tamper-proof opaque plastic that covers a hologram or image; and the microsystem technology group at the University of Glasgow, Scotland.
STIC Full Text Retrieval Options
31. An MPEG tolerant authentication system for video data
Uehara, T.; Safavi-Naini, R.; Ogunbona, P.;
Multimedia and Expo, 2004. ICME '04. 2004 IEEE International Conference on
30-30 June 2004. Vol.2; p.891
Source: IEEE Electronic Library Online
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We propose a secure video authentication algorithm that is tolerant to visual distortions in video compression to a designed level. The authentication process generates a tamper-resistant

level of protection can be adjusted so that longer tags are used for higher security. The tags are distributed such that higher security is provided for regions of interest in the document. Authentication and verification can be largely performed as part of MPEG-7 processing. Verification of the tag can be integrated into the compression system. Calculations are made fast and so made fast

32. Nanobarcode particles as covert security tags for documents and products
2004.

Source: INSPEC

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33. Novel online security system based on rare-earth-doped glass microbeads
2004.

Source: INSPEC

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34. WANTED: SECURITY TAG TEAM.

Schwartz, Mathew; Schwartz, Mathew.

Computerworld (0010-4841)

6/30/2003. Vol.37, Iss.26; p.38

Source: Computers & Applied Sciences Complete

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Discusses the need for collaboration between information technology and process control industries; Background on the vulnerability of the process systems and control systems; Actions taken by Du Pont Co. to control process-control systems; Managing process-control hardware.

STIC Full Text Retrieval Options

35. Looking to the future

Dempsey, Kathy; Dempsey, Kathy.

Information World Review (0950-9879)

12/1/2002. Iss.186; p.24

Source: Computers & Applied Sciences Complete

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Geared toward a UK readership, briefly summarizes a number of new developments in the information industry. On the technology front, the buzz is all about personalization, reference, and many libraries are exploring ways to incorporate the use of RFID into its own is Radio Frequency Identification (RFID), which promises to revolutionize the way information is tracked. The RFID tag is like a super-charged barcode; as well as containing information, it is coded to hold other information and incorporates the security tag. On the horizon, RFID looms large, not a popular development for librarians who have long upheld the status quo. Trends on the horizon for 2003 include artificial intelligence on library Web pages, the Web, possibly even in library automation systems.

36. Tag-based vision: assisting 3D scene analysis with radio-frequency tags
Boukraa, M.; Ando, S.;

Image Processing. 2002. Proceedings. 2002 International Conference on (ICIP 2002). 22-25 Sept. 2002. Vol.1; p.1

Source: IEEE Electronic Library Online

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Radio frequency (RF) tags are growing popular for many industrial applications for security. We investigate the benefit of RF tagging in an application of 3D machine vision. We present a machine vision system that uses a RF Tag device to detect and identify objects. The tag system consists of a tag reader that can interrogate, and receive responses from objects and characterizing them. Laying the basis of an object model database for knowledge-based recognition task where the information retrieved from the database. The recognition algorithm used is a matching with projective invariants. Our results prefigures tag based applications where physical and logic representations are used. 37. Time for change in pre-assembly? The challenge of thin chips
Kroninger, W.J.; Hecht, F.; Lang, G.; Mariani, F.; Geyer, S.; Schneider, L.
Electronic Components and Technology Conference, 2001. Proceedings., 2001. 29 May-1 June 2001. p.1029

Source: IEEE Electronic Library Online

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One of the most challenging tasks in pre-assembly, coming up in recent years, are applications standing on the horizon: Smart-cards (credit-card, telephone-cards, price-labels), memory applications (stacks of thin memory-chips). Power is getting thinner. Several procedures have been suggested and are in some cases used in manufacturing thin chips. Most promising are cluster-tools, combining several pieces of equipment. We will look at the different process-flows and equipment-tools nowadays. Main aspect in judging these methods are compatibility between different tools, stability, quality and cost-effectiveness. According to product needs there should be considered as best practice

38. Anvil to build security centres.

Leonardo, Albert.

ComputerWorld Canada (1195-6100)

5/18/2001. Vol.17, Iss.10; p.6

Source: Computer Source: Consumer Edition

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Reports that the Anvil Group and Cisco Systems have formed a security tag company that security systems centers in locations around the world. Cisco's provision of security tags for storage and protection of data; Anvil's outsourcing of sensitive security data to STIC Full Text Retrieval Options

39. Time for change in pre-assembly? The challenge of thin chips.
2001.

Source: INSPEC

Show In Clusters

40. Asset protection takes center stage.

Gerard, Alexis; Gerard, Alexis.

Electronic Publishing (1097-9190)

6/1/2000. Vol.24, Iss.6; p.18

Source: Computers & Applied Sciences Complete

Show Abstract | Show In Clusters | 2 Duplicate Records

Focuses on online securitization of the assets of visual content owners in the brand product; Issues concerning brand control; Use of security tags in product authentication; Disadvantages of deploying the security tag approach.

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Method and apparatus for detecting unauthorized distribution of data
1/14/1997.

Show Abstract | Show In Clusters | 1 Duplicate Records

system sends data to a requesting member of the wireless communication, security gateway. As the security gateway is receiving the data, it is search security tag is found, the security gateway determines whether the security base transmitting the data. If the security tag is not assigned to the particular identifies the particular data base as a potential unauthorized distributor of Inc., Patent Number: 5594796.

1995.

Show In Clusters

Lu, Cary; Lu, Cary.

6/1/1993. Vol.10,Iss.6;p.207

Source: Computers & Applied Sciences Complete

Proposes preventive security measures to guard against computer theft. Sim

Portable alarm systems; Camouflage; Cable-locks; Security tag systems; P

Protection against file recovery programs; Electromagnetic radiation; Other

44. High security tagging system f

Security Technology, 1992. Crime Countermeasures, Proceedings. Institut

14-16 Oct. 1992. p.86

Source: IEEE Electronic Library Online

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items including documents, containers, and parcels. An optically encoded

producing the tag, means for affixing the tag, means for archiving the tag f

provisions to restrict access to the archives, means for verifying the tag at

prevent duplication or removal and reapplication of the tags, management

authorized parties, and procedures to be followed when verification is successful.

its use in verification tagging applications, and mechanisms for production

The techniques developed are highly robust, in that they allow the pattern

other masking effects as well as partial defacement without loss of identity

distances, and the verification process itself will provide distance information for security purposes. Proof of principle has been demonstrated

45. We are approaching the year's peak period for theft so -- Tag your PCs.
Management Services (0307-6768)
10/1/1992. Vol.36,Iss.10;p.32-32

Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

The problem with laptops and calculators are that it is impossible to secure them with their merchandise. Personal computers are protected by a shield of metal, but the casing de-tunes the target wherever it is placed. To solve his problem, a researcher has developed a security system called Stealth Tag. Like its aeronautical namesake the tag is invisible. Security staff are alerted whenever a tagged item attempts to walk from the store. The tag is usually concealed in the ceiling panels detect any tag moving within its range. The tag is made of metals is overcome by using a dual-frequency detection principle which K. J. R. reasons.

STIC Full Text Retrieval Options

46. Shoplifting spoils.

New Scientist (0262-4079)

4/27/1991. Vol.130,Iss.1766;p.31

Source: Computers & Applied Sciences Complete
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Informing that Security Tag Systems of Florida is filing patents in Europe on a system that the thief does not benefit from the item stolen. Possible use for clothing.

STIC Full Text Retrieval Options

47. Mini hi-tech security tag system.

Accountancy (0001-4664)

2/1/1991. Vol.107,Iss.1170;p.55-55

Source: Computers & Applied Sciences Complete
Show Abstract | Show In Clusters

The article introduces a security tag system, called Team 90, from Team Electronics. Companies concerned for the physical safety of their high-tech equipment are looking for a way to protect their equipment from theft at the cost of a few pence for each item per day. Any attempt to tamper with the tag points -- such as internal doors and building exits -- will both trigger an alarm and which will film the thief in action.

STIC Full Text Retrieval Options

48. Architectural support of fine-grained secure computing

Bondi, J.O.; Branstad, M.A.;

Computer Security Applications Conference, 1989., Fifth Annual (0-8186-2444-4)
4-8 Dec. 1989. p.121

Source: IEEE Electronic Library Online

Show Abstract | Show In Clusters

An architecture especially adept at security support is outlined. The architecture is a two-tuple, or ordered pair, consisting of a datum word and an associated security unit, the two-tuple moves around through the architecture in unison as processors. Each subprocessor always operates on a security tag in synchrony with a fairly close match on the associated datum word. The coupled subprocessors provide the overall security.

multilevel-secure access control and flow control. The proposed architecture
security technology along a unique combination of three fronts: (1) direct
the-word mediation, and (3) optimal (minimal) result classification
